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NOTICE OF ALLOWANCE AND FEE(S) DUE

022494

7590

05/06/2003

DALY, CROWLEY & MOFFORD, LLP SUITE 101 275 TURNPIKE STREET CANTON, MA 02021-2310 EXAMINER

LEE, CHRISTOPHER E

ART UNIT CLASS-SUBCLASS

710-317000

2189

DATE MAILED: 05/06/2003

1	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/540,825	03/31/2000	David L Black	07072-100001	2354

TITLE OF INVENTION: DATA STORAGE SYSTEM HAVING SEPARATE DATA TRANSFER SECTION AND MESSAGE NETWORK WITH PLURAL DIRECTORS ON A COMMON PRINTED CIRCUIT BOARD AND REDUNDANT SWITCHING NETWORKS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$0	\$1300	08/06/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status.
 See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Alexandria, Virginia 22313-1450

<u>Fax</u> (703)746-4000

indicated unless corrected b maintenance fee notification	espondence including the elow or directed otherwises.	e Patent, advance orders a se in Block 1, by (a) spec	and notification of maintenant cifying a new correspondence	(if required). Blocks 1 through 4 note fees will be mailed to the current e address; and/or (b) indicating a sep	t correspondence address as
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DALY, CROWLEY & MOFFORD, LLP				wing, must have its own certificate of	mailing or transmission.
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APPLICATION NO.	FILING DATE	FIRST	NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/540,825	03/31/2000	······································	David L Black	07072-100001	2354
TITLE OF INVENTION: I DIRECTORS ON A COMM	DATA STORAGE SYST ON PRINTED CIRCUIT	EM HAVING SEPARAT BOARD AND REDUND	TE DATA TRANSFER SEC ANT SWITCHING NETWO	TION AND MESSAGE NETWOR RKS	K WITH PLURAL
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nonprovisional	NO	\$1300	\$0	\$1300	08/06/2003
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EXAMIN	ER	ART UNIT	CLASS-SUBCLASS		
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3. ASSIGNEE NAME AND					
PLEASE NOTE: Unless ar been previously submitted ((A) NAME OF ASSIGNEE	assignee is identified beloo the USPTO or is being s		appear on the patent. Inclusioner. Completion of this form IDENCE: (CITY and STATE	ion of assignee data is only appropria n is NOT a substitute for filing an assi COR COUNTRY)	tte when an assignment has gnment.
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Please check the appropriate	assignee category or categ	gories (will not be printed	on the patent) U individ	dual 🚨 corporation or other private g	group entity 🚨 government
4a. The following fee(s) are e	enclosed:	4b. Payn	nent of Fee(s):		
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Commissioner for Patents is	requested to apply the Issu			reviously paid issue fee to the applica	
(Authorized Signature)		(Date)			
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completed application form case. Any comments on (suggestions for reducing the Patent and Trademark C 22313-1450. DO NOT SEEND TO: Commissioner f	uis burden, should be sent office, U.S. Department END FEES OR COMPI	t to the Chief Information of Commerce, Alexan	the individual s form and/or 1 Officer, U.S. dria, Virginia S ADDRESS.		

TRANSMIT THIS FORM WITH FEE(S)

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



United States Patent and Trademark Office

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/540,825	25 03/31/2000 David L Black		07072-100001	2354
022494 75	90 05/06/2003		EXAMIN	ER
DALY, CROWLI	EY & MOFFORD, LLP	•	LEE, CHRISTO	OPHER E
75 TURNPIKE ST	TREET		ART UNIT	PAPER NUMBER
CANTON, MA 020 JNITED STATES	021-2310		2189	11

Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/540,825	03/31/2000	David L Black	07072-100001 2354	
022494 75	590 05/06/2003		EXAMINI	ER
DALY, CROWL SUITE 101	EY & MOFFORD, LLP		LEE, CHRISTO	OPHER E
275 TURNPIKE S	TREET		ART UNIT	PAPER NUMBER
•	CANTON, MA 02021-2310 JNITED STATES		2189	
OMITED STATES			DATE MAILED: 05/06/2003	

Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003: Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)	
	09/540,825	BLACK ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Christopher E. Lee	2189	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	is (OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not includ n will be mailed in due	ed course. THIS
1. This communication is responsive to <u>telephone conference</u>	ce of 5/5/2003.		
2. X The allowed claim(s) is/are <u>1-14</u> .			
3. The drawings filed on are accepted by the Examination	er.		
 Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 	der 35 U.S.C. § 119(a)-(d) or (f).		
1. Certified copies of the priority documents hav	e been received.		
Certified copies of the priority documents hav			
3. Copies of the certified copies of the priority do	ocuments have been received in this	national stage applica	ation from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priority of		ional application).	
(a) The translation of the foreign language provisional			
6. Acknowledgment is made of a claim for domestic priority to	under 35 U.S.C. §§ 120 and/or 121.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	of this communication to file a reply of this application. THIS THREE-MO	omplying with the req	uirements noted EXTENDABLE.
7. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gives real	mitted. Note the attached EXAMINEI ason(s) why the oath or declaration is	R'S AMENDMENT or deficient.	NOTICE OF
 8. ☐ CORRECTED DRAWINGS must be submitted. (a) ☐ including changes required by the Notice of Draftspe 1) ☐ hereto or 2) ☐ to Paper No 			
(b) including changes required by the proposed drawing Examiner.	correction filed 08 January 2003, v	vhich has been appro	ved by the
(c) \square including changes required by the attached Examine	er's Amendment / Comment or in the	Office action of Pape	r No
Identifying indicia such as the application number (see 37 CFR each sheet.	1.84(c)) should be written on the draw	ings in the front (not th	ne back) of
9. DEPOSIT OF and/or INFORMATION about the depattached Examiner's comment regarding REQUIREMENT FOR	osit of BIOLOGICAL MATERIAL THE DEPOSIT OF BIOLOGICAL MA	must be submitted. ATERIAL.	Note the
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449), Paper No. Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4⊠ Interview Sumr 6⊠ Exàminer's Am 8⊠ Examiner's Sta 9□ Other MAR	tement of Reasons fo K H. RINEHART	er No. <u>11</u> . r Allowance
	SUPERVISOI	RY PATENT EXAMINE	R

U.S. Patent and Trademark Office PTO-37 (Rev. 04-03)

Notice of Allowability

Part of Paper No. 11.

Application/Control Number: 09/540,825

Art Unit: 2189

Page 2
Attachment of PTO-37

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Richard M. Sharkansky (Reg. No. 25,800) on 5th of May, 2003.

The Application has been amended as follows:

IN THE SPECIFICATION

In the Amendment filed on 8^{th} of January, 2003, page 3, A2, line 5, delete " 200_1 - 200_{32} " and insert -200_1 - 200_{32} (Fig. 2)--.

Drawings

2. The application having been allowed, formal drawings are required in response to this Office Action.

Allowable Subject Matter

- 3. Claims 1-14 are allowed.
- 4. The following is an examiner's statement of reasons for allowance: The Applicants' arguments in the Response filed on 8th of January, 2003, pages 4-5 and the After Final Response filed on 28th of April, 2003, page 2 are persuasive regard patentability of the invention as disclosed in the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 09/540,825

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Page 3
Attachment of PTO-37

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher E. Lee whose telephone number is 703-305-5950. The examiner can normally be reached on 9:00am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark H. Rinehart can be reached on 703-305-4815. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-7239 for regular communications and 703-746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Christopher E. Lee

Examiner

Art Unit 2189

CEL/ CEL May 5, 2003

MARK H. RINEHART SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2100